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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/765,256	10/765,256 01/26/2004		Srikanth Varanasi	1-15610	9581	
1678	7590	08/30/2006		EXAMINER		
MARSHA		LHORN GHT FLOOR	CHEN, BRET P			
TOLEDO,	•			ART UNIT PAPER NUMBER		
•				1762		
				DATE MAILED: 08/30/2006	DATE MAILED: 08/30/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

				r				
		Application No.	Applicant(s)					
		10/765,256	VARANASI ET AL.					
	Office Action Summary	Examiner	Art Unit					
		B. Chen	1762					
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet wi	th the correspondence address					
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DAISSION OF THE MAILING THE MAIL	ATE OF THIS COMMUNION (36(a). In no event, however, may a rewill apply and will expire SIX (6) MON, cause the application to become AB	CATION. eply be timely filed ITHS from the mailing date of this communication BANDONED (35 U.S.C. § 133).					
Status								
1)⊠	Responsive to communication(s) filed on 14 Au	ugust 2006.						
2a) <u></u> ☐	This action is FINAL . 2b)⊠ This action is non-final.							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D	. 11, 453 O.G. 213.					
Dispositi	ion of Claims							
4) 🛛	Claim(s) 1-20 is/are pending in the application.							
•	4a) Of the above claim(s) is/are withdraw							
5)[Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1-20</u> is/are rejected.							
·	Claim(s) is/are objected to.							
8)∐	Claim(s) are subject to restriction and/or	r election requirement.						
Applicati	ion Papers							
9)[The specification is objected to by the Examine	r.						
10)	The drawing(s) filed on is/are: a) acce	epted or b) objected to l	by the Examiner.					
	Applicant may not request that any objection to the	drawing(s) be held in abeyan	ice. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the correcti	· · · · · · · · · · · · · · · · · · ·						
11)	The oath or declaration is objected to by the Ex	aminer. Note the attached	I Office Action or form PTO-152.					
Priority ι	under 35 U.S.C. § 119							
12)	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. §	119(a)-(d) or (f).					
a)	☐ All b)☐ Some * c)☐ None of:							
	1. Certified copies of the priority documents	s have been received.						
	2. Certified copies of the priority documents	s have been received in A	pplication No					
	3. Copies of the certified copies of the prior		received in this National Stage					
• •	application from the International Bureau							
- 8	See the attached detailed Office action for a list of	of the certified copies not	received.					
Attachmen	t(s)							
	ee of References Cited (PTO-892)		Summary (PTO-413)					
	e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		s)/Mail Date nformal Patent Application (PTO-152)					
	r No(s)/Mail Date	6) Other:	•					

DETAILED ACTION

Claims 1-20 are pending in this application, which is an RCE of Serial Number 10/765256. The preliminary amendment dated 8/14/06 amending claims 1 and 16 have been entered.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 16 is rejected under 35 U.S.C. 102(b) as being clearly anticipated by Koujima et al. (2003/0008176). Koujima discloses a method of producing a magnetic recording medium comprising a spinel-type iron oxide thin film which exhibits a high coercive force and an excellent squareness in an industrially and economically useful manner (paragraph 2). In the Background, Koujima discloses a conventional method of decomposing a vapor of ferrocenes and another materials such as a metal chelate, a metal carbonyl, or ferrocene together with a oxygen gas in a high-density pressure-reduced plasma to directly forming a spinel-type iron oxide thin film (paragraph 20). A glass substrate is utilized (paragraph 58) and an inert gas may be utilized (paragraph 19).

Art Unit: 1762

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-15, 17-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Koujima et al. (2003/0008176). Koujima discloses a method of producing a magnetic recording medium comprising a spinel-type iron oxide thin film by reacting a mixture of ferrocene together with an oxygen gas as noted. However, the reference fails to specifically teach reacting near the substrate surface.

It is noted that the reference fairly teaches of reacting the gas mixture to form a coating. One skilled in the art would realize that the closer the reaction takes place to the substrate, the more efficient the process becomes. It would have been obvious to one skilled in the art to react the gas mixture near the substrate surface with the expectation of obtaining a more cost effective process.

Dependent claims 2-15 require specific inert gases, deposition rates, ferrocene concentrations, and thicknesses. These are well known and conventional parameters which are often varied in routine experimentation to obtain optimum deposition conditions. It would have

Art Unit: 1762

been obvious to one having ordinary skill in the art to have determined the optimum value of a cause effective variable such as deposition rates, ferrocene concentrations, and thicknesses through routine experimentation in the absence of a showing of criticality.

The limitations of claims 2-15, 17-20 have been addressed above.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to B. Chen whose telephone number is (571) 272-1417. The examiner can normally be reached on 7:30am - 4:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Timothy Meeks can be reached on (571) 272-1423. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Bc 8/27/06

BRET CHEN
PRIMARY EXAMINER